

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 9, 2003, 10:32:57 ; search time 3226 Seconds

Perfect score: 858

Sequence: 1 GCGGTGGTGAAGCTAGC.....TGGCCCTCCCTTCATTGTACT 858
(without alignment)
7104.656 Million cell updates/sec

Title: US-09-892-316-2

Scoring table: IDENTITY_NUC
Gapop 10-0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters:

5105512

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_19Jun03 : *

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22: /SIDS1/gcldata/geneseq/geneseq-emb1/NA2001.DAT: *
23: /SIDS1/gcldata/geneseq/geneseq-emb1/NA2002.DAT: *
25: /SIDS1/gcldata/geneseq/geneseq-emb1/NA2003.DAT: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description	
1	858	100.0	858	19	AAV4175	Human LEA-motif de	
2	853.6	99.5	1549	21	AAA4631	Nucleotide sequenc	
c	3	524.4	61.1	1149	22	ABA05672	Human bone marrow
c	4	436.2	50.8	601	21	AAA16360	Human colon cancer
c	5	382.6	44.6	1300	23	AAS6254	DNA encoding novel
c	6	380.2	44.3	620	22	ABA0588	Human bone marrow
c	7	374.2	43.6	1298	23	AAS6873	DNA encoding novel
c	8	357	41.6	501	23	AAS73953	DNA encoding novel

Location/Qualifiers
/ttag= a
/product= HulBAP

ALIGNMENTS

RESULT 1	XX	XX	XX
ID AAV45175	XX	XX	XX
standard; DNA; 858 BP.	XX	XX	XX
AAV45175;	XX	XX	XX
29-OCT-1998 (first entry)	DT	DE	DE
Human LEA-motif developmental protein coding sequence.	XX	XX	XX
LEA-motif developmental protein; human; HulBAP; tissue regeneration; abnormal cellular differentiation; hypoadosteronism; Addison's disease; hypothyroidism; colorectal polyps; duodenal ulcer; cancer; therapy; late embryogenesis abundant protein; cell proliferation induction; ss.	XX	XX	XX
Homo sapiens.	OS	OS	OS
PN W09835041-A1.	PN	PN	PN
Key	FT	FT	FT
CDS	FT	FT	FT
130..790			

result No.	Score	Query Match Length	DB ID	Description
1	1130	100.0	219	Human LEA-motif de
2	726.5	64.3	167	Novel human diagno
3	339.5	30.0	99	Human bone marrow
4	245.5	21.7	98	Novel human diagno
5	212.9	20.3	171	Drosophila melanogaster
6	211.5	19.2	82	Novel human diagno
7	200.5	17.7	194	Human vesicle traffic
8	200.5	17.7	194	Human protein traf
9	200.5	17.7	194	Human vesicle traffic

RC	TISSUE=Brain, Eye, Ovary, and Placenta; MEDLINE=22388257; PubMed=9747732;	Qy	121 SGWTBIRREAWVSSSLFGVSRAOFGLARKFSNTVTKMGFEYLAKLQEAPSNTLVE 180
RA	Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Schuler G.D., Klausner R.D., Collins F.S., Wagner L., Sheinin C.M., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Max S.J., Wang J., Hsieh F., Diatchenko L., Marusina K., Zeiberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Stapleton M., Soares M.B., Bonaolo M.F., Casavant T.L., Schatz T.E., Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J., Bosack S.A., McEvlan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Kettman M., Nadan A., Rodriques S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwade J., Schmitz J., Myers R.M., Butterfield Y.S.N., Krzywinski M.J., Marra M.A., Schein A., Schein J.B., Jones S.J.M., Marra M.A., "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.", Proc. Natl. Acad. Sci. U.S.A. 99:16909-16903 (2002).	Db	121 SGWTBIRREAWVSSSLFGVSRAOFGLARKFSNTVTKMGFEYLAKLQEAPSNTLVE 180
RA	CC !- FUNCTION: May be important for the development of vital and immunocompetent organs	Db	181 TAKEKEKAYTAKDIALASKAATPKQQQQQFV 219
RA	CC !- TISSUE SPECIFICITY: Highly expressed in fetal liver; less expressed in fetal brain, lung, and kidney. At the adult stage, expression is drastically reduced in the liver but highly expressed in the spleen, brain, lung, lymph nodes and peripheral blood leukocytes.	Db	181 TAKEKEKAYTAKDIALASKAATPKQQQQQFV 219
CC	CC !- SIMILARITY: Contains 1 PRELI/MSF1 domain.	Db	181 TAKEKEKAYTAKDIALASKAATPKQQQQQFV 219
CC	CC !- This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).	Db	181 TAKEKEKAYTAKDIALASKAATPKQQQQQFV 219
DR	EMBL; AF201925; AAF09455_1; -	DR	DR
DR	EMBL; AF151864; AAD34101_1; -	DR	DR
DR	EMBL; AF153607; AAD41089_1; -	DR	DR
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DR	EMBL; BC008307; AAH08307_1; -	DR	DR
DR	EMBL; BC008866; AAH08866_1; -	DR	DR
DR	EMBL; BC013733; AAH13733_1; -	DR	DR
DR	EMBL; BC013748; AAH13748_1; -	DR	DR
DR	MIM: 605733; -	DR	DR
DR	GO: GO:000275; P:development; TAS.	DR	DR
DR	GO: GO:0006555; P:immune response; TAS.	DR	DR
DR	InterPro; IPR006197; MSF1.	DR	DR
DR	Pfam; PF04707; MSF1; 1.	DR	DR
DR	PROSITE; PS30904; PRELI_MSF1; 1.	DR	DR
DR	DOMAIN 1 174 PRELI/MSF1.	DR	DR
FT	DOMAIN 1 127 R -> H (IN REF. 1).	DR	DR
FT	CONFFLICT 142 A -> T (IN REF. 5).	DR	DR
FT	CONFFLICT 171 MISSING (IN REF. 5).	DR	DR
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Matches	219; Conservative 0; Mismatches 0; Indels 0; Gaps 0	Matches	98.1%; Pred. No. 3.9e-83; Mismatches 0; Indels 0; Gaps 0
Qy	1 MVKYFLGQSVLRSWSDQVAFQYRPPYSPSKHVLTEIVHREVTDPQKLJSRRLTKTN 60	Qy	1 MVKYFLGQSVLRSWSDQVAFQYRPPYSPSKHVLTEIVHREVTDPQKLJSRRLTKTN 60
Db	1 MVKYFLGQSVLRSWSDQVAFQYRPPYSPSKHVLTEIVHREVTDPQKLJSRRLTKTN 60	Db	1 MVKYFLGQSVLRSWSDQVAFQYRPPYSPSKHVLTEIVHREVTDPQKLJSRRLTKTN 60
Qy	61 RMPRWAELPFPANVAYAHSVYLEDIVDQONQMTTFTINHARLMYEECVYCNSDN 120	Qy	61 RMPRWAELPFPANVAYAHSVYLEDIVDQONQMTTFTINHARLMYEECVYCNSDN 120

Result No.	Score	Query	Match	Length	DB ID	Description
1	1130	100.0	219	1	PX19_HUMAN	Q9y555 homo sapien
2	1098	97.2	219	1	PX19_MOUSE	Q8r107 mus musculus
3	958	84.8	215	1	PX19_CHICK	Q90673 Gallus gallus
4	207.5	18.4	230	1	MSFL1_YEAST	P32200 saccharomyces
5	201.5	17.8	195	1	CT45_MOUSE	Q5C9Y7 mus musculus
6	200.5	17.7	194	1	CT45_HUMAN	Q93Y3B1 homo sapien
7	139.5	12.3	715	1	S141_HUMAN	Q32503 homo sapien
8	126	11.2	743	1	YN02_CAEEL	Q33606 caenorhabditis
9	107	9.5	747	1	VIVC_BPT7	P3725 bacteriophaga
10	92	8.1	422	1	GAS7_RAT	Q61548 rattus norvegicus
11	91	8.1	421	1	GAS7_MOUSE	Q60780 mus musculus
12	90	8.0	644	1	YEN9_YEAST	P40322 saccharomyces
13	85.5	7.6	412	1	GAS7_HUMAN	Q60861 homo sapien
14	85.5	7.6	433	1	ZU01_YEAST	P22527 saccharomyces
15	85	7.5	354	1	VE11_VACC	P21052 vaccinia vi
16	84	7.4	822	1	FER_HUMAN	P16591 homo sapien
17	84	7.4	878	1	MSH4_YEAST	P00965 saccharomyces
18	83	7.3	359	1	SERC_BACSU	P80862 bacillus su
19	83	7.3	1787	1	CHD3_CAEEL	P22516 caenorhabditis
20	82	7.3	2832	1	NDVB_RHIME	P00471 rhizobium m
21	81	7.2	349	1	SUR2_YEAST	P38992 haemophilus
22	80.5	7.1	687	1	TRA_HAEIN	Q00069 haemophilus
23	80.5	7.1	700	1	ADBI1_YEAST	P227351 saccharomyces
24	80.5	7.1	1959	1	MYH9_CHICK	P44105 Gallus gallus
25	80	7.1	372	1	TOLA_HAENV	P46678 haemophilus
26	80	7.1	1403	1	VG22_HSTV1	P00105 ictalurid h
27	79.5	7.0	121	1	RS24_PYRAE	Q82v65 pyrobaculum
28	79	7.0	337	1	VF11_VACC	P29888 vaccinia vi
29	79	7.0	426	1	GUNZ_BRWCH	P07103 erwilia vi
30	78.5	6.9	280	1	LB76_BRANA	P13934 brassica napus
31	78.5	6.9	967	1	CAP2_MAIZE	P51059 zea mays (m)
32	78	6.9	224	1	Y364_MYCGE	P41604 mycoplasma
33	78	6.9	471	1	K1CN_HUMAN	P02533 homo sapien

RESULT 2
US-09-213-391-2
; Sequence 2, Application US/09213391
; Patent No. 6281190
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: HUMAN LPA-MOTIF DEVELOPMENTAL
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Disquette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/213,391
; CLASSIFICATION:
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/796,676
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PP-0213 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 858 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; -US-09-213-391-2

Query Match          100.0%; Score 858; DB 3; Length 858;
Best Local Similarity 100.0%; Pred. No. 4.8e-214;
Matches 858; Conservative 0; Mismatches 0; Indels 0; Gaps 0
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Db          121 GCGGGGAGATGAGTGGAGATTTCTGGCCAGGGGGTCTGGAGATCTGGACCA 180
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Qy          301 CAAGACACAGATGCCACGTGGGGAGGCACTTCTGCCATGTTGCTCACT 360
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Qy          481 CTGACATCAACCTGGCTGAGCTGAGCTGAGCTTCTGCTGAA 540
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Qy          601 GACATGAGGGTTGGATATCTTGGCTAAGCTGAAAGGGAGCCCPTCACAA 660

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[REDACTED] NUMBER OF HOURS AND INVESTIGATIVE ACTIVITIES

卷之三

maximum DB seq length: 2000000000
post-processing: Minimum Match 0%
Maximum Match 100%
Tier first 45 summaries

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 3: /cgn2/6/ptodata/2/ina/6A_COMB.seq:*
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 5: /cgn2/6/ptodata/2/ina/PCTRUS_COMB.seq:*
 6: /cgn2/6/ptodata/2/ina/backfile1.seq:*

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ered. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SYMPTOMS

result No.	Query				ID	Description	
	Score	Match	Length	DB			
1	858	100.0	858	2	US-08-796-676-2	Sequence 2, Appli	
2	858	100.0	858	3	US-09-213-991-2	Sequence 2, Appli	
3	853.6	99.5	1549	3	US-09-438-998-8	Sequence 8, Appli	
4	853.6	99.5	1549	4	US-09-668-985A-8	Sequence 8, Appli	
5	436.2	50.8	601	3	US-09-385-982-365	Sequence 365, Appli	
c	6	4.6	642	4	US-09-252-991A-152522	Sequence 152522, A	
c	7	39.2	4.6	822	4	US-09-252-991A-15264	Sequence 15264, A
c	8	39.2	4.6	993	4	US-09-252-991A-15411	Sequence 15411, A
c	9	39.2	4.6	1644	4	US-09-252-991A-15473	Sequence 15473, A
c	10	39.2	4.6	3728	1	US-08-11-339-1	Sequence 1, Appli
c	11	39	4.5	1626	4	US-09-620-312D-1033	Sequence 1033, Ap
c	12	38.6	4.5	7218	1	US-08-232-463-14	Sequence 14, Appli
c	13	38	4.4	1374	4	US-09-552-991A-8550	Sequence 8550, Ap
c	14	38	4.4	2463	4	US-09-252-991A-8552	Sequence 8552, Ap
c	15	37.8	4.4	2748	4	US-09-252-991A-8562	Sequence 8562, Ap
c	16	37.6	4.4	1392	4	US-09-552-991A-7744	Sequence 7744, Ap
c	17	37.6	4.4	1905	4	US-09-552-991A-7829	Sequence 7829, Ap
c	18	37.6	4.4	43280	2	US-08-004-227C-1	Sequence 1, Appli
c	19	37.2	4.3	3202	4	US-09-287-354-1	Sequence 1, Appli
c	20	37.2	4.3	6529	3	US-08-789-339C-1	Sequence 1, Appli
c	21	36.6	4.2	1514	4	US-09-162-524-4	Sequence 4, Appli
c	21	36.4	4.2	2988	4	US-09-996-243-325	Sequence 325, Ap
c	22	36.2	4.2	2571	4	US-09-384-880-1	Sequence 1, Appli
c	23	36.2	4.2	2096	4	US-09-884-880-3	Sequence 3, Appli
c	24	36.2	4.2	28804	2	US-08-592-874-1	Sequence 1, Appli
c	25	36.2	4.2	28804	3	US-09-016-892-2	Sequence 2, Appli
c	26	36.2	4.2	28804	3	US-09-016-897-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-96-676-2
Sequence 2, Application US/08796676
Patent No. 5558712
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Goli, Surya K.
TITLE OF INVENTION: HUMAN LEA-M
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEES: Incyte Pharmaceuticals
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
ZIP: 94304

```

STATE: CA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:
COMPUTER TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/796,676
FILING DATE: Filed Herewith
CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-02113 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 858 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-796-676-2

Query Match 100.0%; Score 858; DB
Best Local Similarity 100.0%; Pred. No. 4.88
Matches 858; Conservative 0; Mismatches
Qy 1 GCGGTGGTACTGAGCTAGAGCTGGCGGGGGT
Db 1 GCGGGGTGACTGAGCTGGCGGGGGT
Ov 61 GCCCCCTGGCTGCCCTCCAGGCTCCCCACCCCCCTGAT

```


GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 9, 2003, 11:03:38 ; Search time 2592 Seconds

(without alignments)
 8045.232 Million cell updates/sec

Title: US-09-892-316-2

Perfect score: 858
 Sequence: 1 GCGGGTGTACTGAGCTACG.....TGCCCCCTCATATTGTACT 858

Scoring table: IDENTITY_NUC

Gapon 10.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database :

EST:*

1: em_estba:*

2: em_estbm:*

3: em_estin:*

4: em_estml:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

8: em_htc:*

9: gb_est1:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estctn:*

16: em_estcm:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_pln:*

20: em_gss_vrt:*

21: em_gss_fun:*

22: em_gss_mam:*

23: em_gss_mus:*

24: em_gss_pro:*

25: em_gss_rod:*

26: em_gss_phg:*

27: em_gss_vrl:*

28: gb_gss1:*

29: gb_gss2:*

1: bases 1 to 1062

2: bases 1 to 1062

3: bases 1 to 1062

4: bases 1 to 1062

5	830.8	96.8	1060	12	BM550706
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7	827.6	96.5	1201	9	AL529552
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9	825	96.2	945	13	BQ17909
10	824.8	96.1	883	13	BU54503
11	822.2	95.8	938	12	BM541438
12	815.2	95.0	1054	9	AL558504
13	813	94.8	911	13	BU166159
14	813	94.8	953	13	BQ279042
15	812.6	94.7	965	13	BQ678206
16	809.6	94.4	1172	13	BX404186
17	806.2	94.0	969	13	BU538405
18	794.4	92.6	882	12	BU166091
19	790	92.1	878	13	BQ228147
20	788.2	91.9	1065	12	BM541530
21	780.2	90.9	873	13	BQ179062
22	779.8	90.9	887	13	BO430303
23	773.2	90.1	815	12	BT759007
24	768.2	89.5	880	13	BU250906
25	764.8	89.1	905	13	BO214286
26	763.8	89.0	844	13	BQ218078
27	762.2	88.8	914	13	BU554242
28	756	88.1	889	12	BT752285
29	754.8	88.0	912	13	BU541532
30	754.6	87.9	892	13	BQ34896
31	754	87.9	880	13	BU184058
32	751.4	87.5	922	13	BQ937888
33	750	87.4	766	12	AL525597
34	748.4	87.2	877	9	AL530098
35	743.8	86.7	1201	9	AL529551
36	743.2	86.6	904	12	BQ22519
37	742.6	86.6	909	13	BQ22519
38	742.4	86.5	777	12	BT33024
39	739.6	86.2	866	13	BQ42528
40	738.4	86.1	843	9	AL583524
41	737.2	85.9	919	13	BO224332
42	737.2	85.9	1000	14	CD51897
43	736	85.8	978	12	BU053370
44	735.6	85.7	941	13	BU552441
45	733.4	85.5	748	12	BT1196772

ALIGNMENTS

RESULT 1	AL559031	1062 bp mRNA linear EST 31-MAY-2003
LOCUS	AL559031	CELS (TURKAT CELL LINE) COT 10-NORMALIZED
DEFINITION	AL559031	Homo sapiens cDNA clone CSDD010YD15 5'-PRIME, mRNA sequence.
ACCESSION	AL559031	
VERSION	AL559031.2	
KEYWORDS	EST.	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens	
	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
REFERENCE	Li, W.B., Gruber, C., Jesse, J. and Polayes, D.	
AUTHORS		
TITLE		
JOURNAL		
COMMENT	On Feb 15, 2001 this sequence version replaced gi:12904128.	

SUMMARIES

Result No.	Query ID	Match Length	DB ID	Description
1	858	100.0	1062	9 AL559031
2	858	100.0	1252	11 BC018904 Homo sapi
3	857.6	100.0	9 AL559788	
4	832.8	97.1	967	12 BM549485 AGENCOURT

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Copyright (c) 1993 - 2003 Compugen Ltd.
 OM nucleic - nucleic search, using sw model
 Run on: December 9, 2003, 11:03:38 ; Search time 2592 Seconds
 (without alignments)
 8045.232 Million cell updates/sec

Scoring table: IDENTITY_NUC
 Gapon 10.0 , Gapext 1.0
 Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database :

EST:*

1: em_estba:*

2: em_estbm:*

3: em_estin:*

4: em_estml:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

8: em_htc:*

9: gb_est1:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estctn:*

16: em_estcm:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_pln:*

20: em_gss_vrt:*

21: em_gss_fun:*

22: em_gss_mam:*

23: em_gss_mus:*

24: em_gss_pro:*

25: em_gss_rod:*

26: em_gss_phg:*

27: em_gss_vrl:*

28: gb_gss1:*

29: gb_gss2:*

1: bases 1 to 1062

2: bases 1 to 1062

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10: bases 1 to 1062

FEATURES	source	Location/Qualifiers	LOCUS	DEFINITION	linear	PAT 17-OCT-2001
		1. *858 /organism="unknown"	AR166506	Sequence 2 from patent US 6281190.	858 bp	DNA
BASE COUNT	191 a	258 c 245 g 164 t	AR166506	AR166506		
ORIGIN			AR166506.1	GI:16241861		
			KEYWORDS	Unknown.		
			ORGANISM	Unknown.		
			REFERENCE	1 (bases 1 to 858)		
			AUTHORS	Hillman,J.L. and Goli,S.K.		
			TITLE	Human IFA-motif developmental protein		
			JOURNAL	Patent: US 6281190-A 2 28-AUG-2001;		
			FEATURES	Location/Qualifiers		
			source	1. *858 /organism="unknown"		
			BASE COUNT	191 a 258 c 245 g 164 t		
ORIGIN						
			Query Match	100.0%	Score 858; DB 6;	Length 858;
			Best Local Similarity	100.0%	Pred. No. 4..1e-191;	
			Matches	858; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Mismatches 0;	Gaps 0;
Qy	1	GCGGTTGTTGAGCTGAGCTAAGGCTGGCTGGCCAGCCGGACCG 60	Qy	1	GCGGTGTTGAGCTGAGCTACGAGCCGGCTGGCCAGCCGGCCCG 60	
Db	1	GCGGTGTTGAGCTGAGCTAAGGCTGGCTGGCCAGCCGGCCCG 60	Db	1	GCGGTGTTGAGCTGAGCTACGAGCCGGCTGGCCAGCCGGCCCG 60	
Qy	61	GCCCCTCGCGCCTGCCGCCAGCTCCGACCCCTGATGGCTGAGCCGCTC 120	Qy	61	GCCCCTCGCGCCTGCCGCCAGCTCCGACCCCTGATGGCTGAGCCGCTC 120	
Db	61	GCCCCTCGCGCCTGCCGCCAGCTCCGACCCCTGATGGCTGAGCCGCTC 120	Db	61	GCCCCTCGCGCCTGCCGCCAGCTCCGACCCCTGATGGCTGAGCCGCTC 120	
Qy	121	GGCGGGAGAGATGGTGAAGTATTTCCTGGCCAGAGCTCCGGAGCTCCTGGAGCA 180	Qy	121	GGGGTGTGAGCTGAGCTACGAGCCGGCTGGCCAGCCGGCCCG 60	
Db	121	GGCGGGAGAGATGGTGAAGTATTTCCTGGCCAGAGCTCCGGAGCTCCTGGAGCA 180	Db	121	GGGGTGTGAGCTGAGCTACGAGCCGGCTGGCCAGCCGGCCCG 60	
Qy	181	AGTGTTCGGCGCCTCTGGAGCGTAACTGGCTGGCTGACGA 240	Qy	181	AGCCTCCGGCTGGCTGGAGCTGGCTGGCTGACCTGGCTGACGA 240	
Db	181	AGTGTTCGGCGCCTCTGGAGCGTAACTGGCTGGCTGACGA 240	Db	181	AGCCTCCGGCTGGCTGGAGCTGGCTGGCTGACCTGGCTGACGA 240	
Qy	241	AGACATAGTACACCGGAGGTGACCCCTGACCCCTGAGCTCCCTGAC 300	Qy	241	AGACATAGTACACCGGAGGTGACCCCTGACCCCTGAGCTCCCTGAC 300	
Db	241	AGACATAGTACACCGGAGGTGACCCCTGACCCCTGAGCTCCCTGAC 300	Db	241	AGACATAGTACACCGGAGGTGACCCCTGACCCCTGAGCTCCCTGAC 300	
Qy	301	CAAGACCCACAGGATGCCACGCTGGCCAGCGCACTATTCCTCCCAATGTTGCTCACTC 360	Qy	301	CAAGACCCACAGGATGCCACGCTGGCCAGCGCACTATTCCTCCCAATGTTGCTCACTC 360	
Db	301	CAAGACCCACAGGATGCCACGCTGGCCAGCGCACTATTCCTCCCAATGTTGCTCACTC 360	Db	301	CAAGACCCACAGGATGCCACGCTGGCCAGCGCACTATTCCTCCCAATGTTGCTCACTC 360	
Qy	361	GGTGTACTGCTGGAGGACTCTATGGTACCCAGCTGGCTGTTACCTGTRGAA 420	Qy	361	AGTGTTCGGCTGGAGGACTCTATGGTACCCAGCTGGCTGTTACCTGTRGAA 240	
Db	361	GGTGTACTGCTGGAGGACTCTATGGTACCCAGCTGGCTGTTACCTGTRGAA 420	Db	361	AGTGTTCGGCTGGAGGACTCTATGGTACCCAGCTGGCTGTTACCTGTRGAA 240	
Qy	421	CTGGAAACATAACACCGCCGGCTGATGGTGGCTGAAATCCCGGGAAAGCTGGCTCTCTTAQCTTATT 540	Qy	421	AGACATAGTACACCGGAGGTGACCCCTGACCCCTGAGCTCCCTGAC 300	
Db	421	CTGGAAACATAACACCGCCGGCTGATGGTGGCTGAAATCCCGGGAAAGCTGGCTCTCTTAQCTTATT 540	Db	421	AGACATAGTACACCGGAGGTGACCCCTGACCCCTGAGCTCCCTGAC 300	
Qy	481	CTCTGACACACAGTGGCTGGCTGAAATCCCGGGAAAGCTGGCTCTCTTAQCTTATT 540	Qy	481	CAAGACCCACAGGATGCCACGCTGGCTGAAATCCCGGGAAAGCTGGCTCTCTTAQCTTATT 540	
Db	481	CTCTGACACACAGTGGCTGGCTGAAATCCCGGGAAAGCTGGCTCTCTTAQCTTATT 540	Db	481	CAAGACCCACAGGATGCCACGCTGGCTGAAATCCCGGGAAAGCTGGCTCTCTTAQCTTATT 540	
Qy	541	TGGTGTCTCAGAGCTGTCAGGATTGGCTGCGTTCAAAGGAAAGCTGACAA 600	Qy	541	TGGTGTCTCAGAGCTGTCAGGATTGGCTGCGTTCAAAGGAAAGCTGACAA 600	
Db	541	TGGTGTCTCAGAGCTGTCAGGATTGGCTGCGTTCAAAGGAAAGCTGACAA 600	Db	541	TGGTGTCTCAGAGCTGTCAGGATTGGCTGCGTTCAAAGGAAAGCTGACAA 600	
Qy	601	GACTATGAAGGGTTTGAATATCTTGGCTAAGGCTGGCCCTTCAAAAC 660	Qy	601	GACTATGAAGGGTTTGAATATCTTGGCTAAGGCTGGCCCTTCAAAAC 660	
Db	601	GACTATGAAGGGTTTGAATATCTTGGCTAAGGCTGGCCCTTCAAAAC 660	Db	601	GACTATGAAGGGTTTGAATATCTTGGCTAAGGCTGGCCCTTCAAAAC 660	
Qy	661	ACTTGTTGAGCAGCCAAAGGAGGCCAAAGGAGACGGCAACTGGCTAC 720	Qy	661	ACTTGTTGAGCAGCCAAAGGAGGCCAAAGGAGACGGCAACTGGCTAC 720	
Db	661	ACTTGTTGAGCAGCCAAAGGAGGCCAAAGGAGACGGCAACTGGCTAC 720	Db	661	ACTTGTTGAGCAGCCAAAGGAGGCCAAAGGAGACGGCAACTGGCTAC 720	
Qy	721	AGAGAGGCCAGGACCTCGCAGCAGGCCACCAAGAGGCAAGGCGCAACA 780	Qy	721	AGAGAGGCCAGGACCTCGCAGCAGGCCACCAAGAGGCAAGGCGCAACA 780	
Db	721	AGAGAGGCCAGGACCTCGCAGCAGGCCACCAAGAGGCAAGGCGCAACA 780	Db	721	AGAGAGGCCAGGACCTCGCAGCAGGCCACCAAGAGGCAAGGCGCAACA 780	
Qy	781	GTTTGTGTTGAGCTGAGCTTACCTGGCTAGCCCTCTG 840	Qy	781	GTTTGTGTTGAGCTGAGCTTACCTGGCTAGCCCTCTG 840	
Db	781	GTTTGTGTTGAGCTGAGCTTACCTGGCTAGCCCTCTG 840	Db	781	GTTTGTGTTGAGCTGAGCTTACCTGGCTAGCCCTCTG 840	
Qy	841	CCCTCCCTCATTTGACT 858	Qy	841	CCCTCCCTCATTTGACT 858	
Db	841	CCCTCCCTCATTTGACT 858	Db	841	CCCTCCCTCATTTGACT 858	
RESULT	2					
AR166506						

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 9, 2003, 10:33:38 ; Search time 3494 Seconds
(without alignments)
10045.924 Million cell updates/sec

Title: US-09-892-316-2

Perfect score: 858

Sequence: 1 GCGGTGGTGAATGAGCTACG.....TGGCCCTCCCTTCATTGTACT 858

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 20454813386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : GenEmbl:*

	Result No.	Score	Query Match	Length	DB ID	Description
	1	858	100.0	858	6 AR028528	Sequence AR165506
	2	858	100.0	858	6 AR165506	Sequence BC008866
	3	858	100.0	958	9 BC008866	Sequence Homo sapi BC000007
	4	858	100.0	990	9 BC000007	Sequence Homo sapi AF111112
	5	858	100.0	1006	9 AF111112	Sequence Homo sapi AF151864
	6	858	100.0	1217	9 BC008307	Sequence Homo sapi BC008307
	7	858	100.0	1227	9 BC008307	Sequence Homo sapi BC007268
	8	858	100.0	1243	9 BC007268	Sequence Homo sapi BC013748
	9	858	100.0	1287	9 BC013748	Sequence Homo sapi AR134592
	10	853.6	99.5	1549	6 AR134592	Sequence AR224016
	11	853.6	99.5	1549	6 AR224016	Sequence BC013733
	12	844	98.4	956	9 AF153607	Sequence Homo sapi AF153607
	13	841.4	98.1	943	9 AF153607	Sequence Homo sapi AC016734
	14	811.6	94.6	218836	9 AC016734	Sequence Homo sapi AC092017
	15	810	94.4	130491	9 AC092017	Sequence Homo sapi AF11203
	16	780.4	91.0	1191	9 AF11203	Sequence Human DNA AL359335
	17	777.4	90.6	40639	9 AL359335	Sequence Pan trogl AF201357
	18	769.6	89.7	18492	9 AC134557	Sequence Rattus no AC021231
	19	766.4	89.3	1008	9 AF20195	Sequence Rattus no AC110508
	20	738.4	86.1	185062	9 AC021231	Sequence Rattus no AC022022
	21	631.6	73.6	913604	9 AC022022	Sequence Rattus no BC025859
	22	613.2	71.5	1103	10 BC025859	Sequence Rattus no AC126897
	23	590	68.8	177054	2 AC126897	Sequence Rattus no AC134553
	24	590	68.8	22563	2 AC110508	Sequence Rattus no AC110508
	25	569.4	66.4	213940	2 AC110508	Sequence Rattus no AC137405
	26	567.6	66.2	200627	2 AC137405	Sequence Rattus no AC110444
	27	567.6	66.2	20649	2 AC110444	Sequence Rattus no AL627086
	28	567.4	66.1	10019	10 AL627086	Sequence Mouse DNA AL627074
	29	567.4	66.1	177133	10 AL627074	Sequence Mouse DNA AL645637
	30	564	65.7	20769	10 AL645637	Sequence Mouse DNA BD108371
	31	535	62.4	593	6 BD108371	EST and e
	32	532.8	62.1	243301	2 AC109524	Sequence Rattus no AC109524
	33	532.8	62.1	260579	2 AC130181	Sequence Rattus no AC098554
	34	532.8	62.1	288827	2 AC098254	Sequence Rattus no BC024813
	35	513.4	59.8	899	10 BC024813	Sequence Mus muscu AC144798
	36	471.6	55.0	190806	2 AC144798	Sequence Mus muscu AL606307
	37	464.4	54.1	202625	10 AL606307	Sequence Mus muscu AC098866
	38	464.4	54.1	219825	10 AC098866	Sequence Rattus no AC123185
	39	430.8	50.2	183667	2 AC123185	Sequence Rattus no AL022170
	40	427.4	49.8	170952	9 HS501N12	Sequence Human DNA U319777 Gallus Galli
	41	423	49.3	872	5 GGU31977	Sequence Human DNA AL157714
	42	421.8	49.2	80457	2 AC009625	Sequence Homo sapi Continuation (4 of AC142187 Rattus no AC142187
	43	421.8	49.2	173557	2 AC009625	Continuation (4 of AC142187 Rattus no AC142187
	44	414	48.3	10296	2 AC112815_3	Continuation (4 of AC142187 Rattus no AC142187
	45	414	48.3	181070	2 AC142187	Continuation (4 of AC142187 Rattus no AC142187

SUMMARIES

ALIGNMENTS

RESULT 1

AR028528

LOCUS

Sequence 2

from patent US 56588712.

DEFINITION

AR028528

VERSION

AR028528.1

KEYWORDS

Unknown.

ORGANISM

Unclassified.

REFERENCE

1 (bases 1 to 858)

AUTHORS

Hillman, J.L. and Goli, S.K.

TITLE

CDNA encoding a LEA-motif.

px19

Patent: US 56588712-A 2 12-JAN-1999;

Score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

Pred. No. is the number of results predicted by chance to have a